

Section 51-1.01C(1). Use to revise submittal requirements.

1-2. Use if new bridge decks are within 100 feet of a residence, business, or public space.

Add to section 51-1.01C(1):

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If the methacrylate crack treatment is performed within 100 feet of a residence, business, or public space, submit a public safety plan that includes:

1. Public notification letter with a list of delivery and posting addresses. The letter must describe the work to be performed and state the treatment work locations, dates, and times. Deliver the letter to residences and businesses within 100 feet of overlay work and to local fire and police officials not less than 7 days before starting overlay activities. Post the letter at the job site.
2. Airborne emissions monitoring plan. A CIH certified in comprehensive practice by the American Board of Industrial Hygiene must prepare and execute the plan. The plan must have at least 4 monitoring points including the mixing point, application point, and point of nearest public contact. Monitor airborne emissions during overlay activities.
3. Action plan for protecting the public if levels of airborne emissions exceed permissible levels.
4. Copy of the CIH's certification.

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After completing methacrylate crack treatment activities, submit results from monitoring production airborne emissions as an informational submittal.

3. Use for projects with new bridge decks and PCC overlays.

Replace the 2nd paragraph of section 51-1.01C(1) with:

Submit a deck placement plan for concrete bridge decks. Include in the placement plan your method and equipment for ensuring that the concrete bridge deck is kept damp by misting immediately after finishing the concrete surface.

Section 51-1.03H. Use for projects with new bridge decks and PCC overlays.

Replace the 2nd paragraph of section 51-1.03H with:

Cure the top surface of bridge decks by (1) misting and (2) the water method under section 90-1.03B(2). After strike off, immediately and continuously mist the deck with an atomizing nozzle that forms a mist and not a spray. Continue misting until the curing medium has been placed and the application of water for the water method has started. At the end of the curing period, remove the curing medium and apply curing compound on the top surface of the bridge deck during the same work shift under section 90-1.03B(3). The curing compound must be curing compound no. 1.

Section 51-1.02B. Use for projects with new bridge decks and PCC overlays. Use Bid Item 51XXXX Structural Concrete, Bridge (Polymer Fiber).

Add to section 51-1.02B:

Concrete for concrete bridge decks must contain polymer fibers. Each cubic yard of concrete must contain at least 1 pound of microfibers and at least 3 pounds of macrofibers.

Concrete for concrete bridge decks must contain a shrinkage reducing chemical admixture. Each cubic yard of concrete must contain at least 3/4 gallon of a shrinkage reducing admixture. If you use the maximum dosage rate shown on the Authorized Material List for the shrinkage reducing admixture, your submitted shrinkage test data does not need to meet the shrinkage limitation specified.

Section 90-1.01C. Use for projects with new bridge decks and PCC overlays.

Add to section 90-1.01C:

90-1.01C(11) Polymer Fibers

Submit fiber manufacturer's product data and instructions for use.

Submit a certificate of compliance for each shipment and type of fibers.

Section 90-1.02A. Use for projects with new bridge decks and PCC overlays.

Replace the row for bridge deck concrete in the table in the 1st paragraph of section 90-1.02A with:

Bridge deck concrete	0.032
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Section 90-1.02K. Use for projects with new bridge decks and PCC overlays.

Add to section 90-1.02:

90-1.02K Polymer Fibers

Fibers must comply with ASTM D 7508. Microfibers must be from 1/2 to 2 inches long. Macrofibers must be from 1 to 2-1/2 inches long.